

AS90347

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ISSUED 2004-04

CUSTODIAN: SAE AE-8/AE-8A

SAE Aerospace
*An SAE International Group***AEROSPACE STANDARD**CABLE ASSEMBLY, EXTERNAL
ELECTRIC POWER, AIRCRAFT
28 VOLT DC, OPERATING POWER**AS90347**
SHEET 1 OF 4

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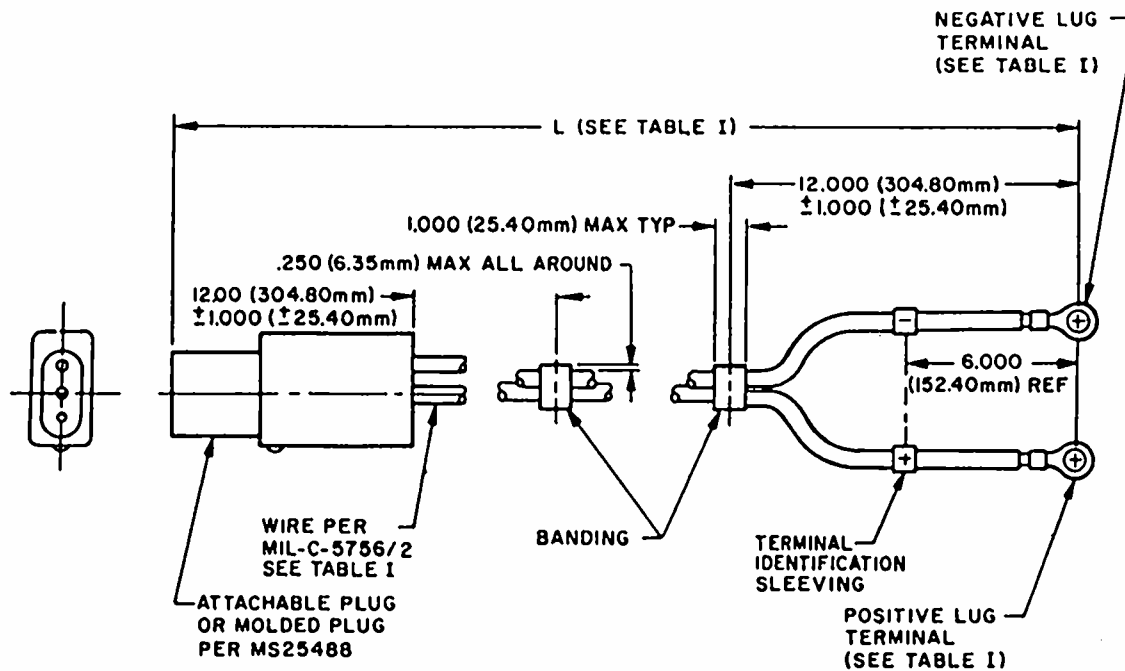
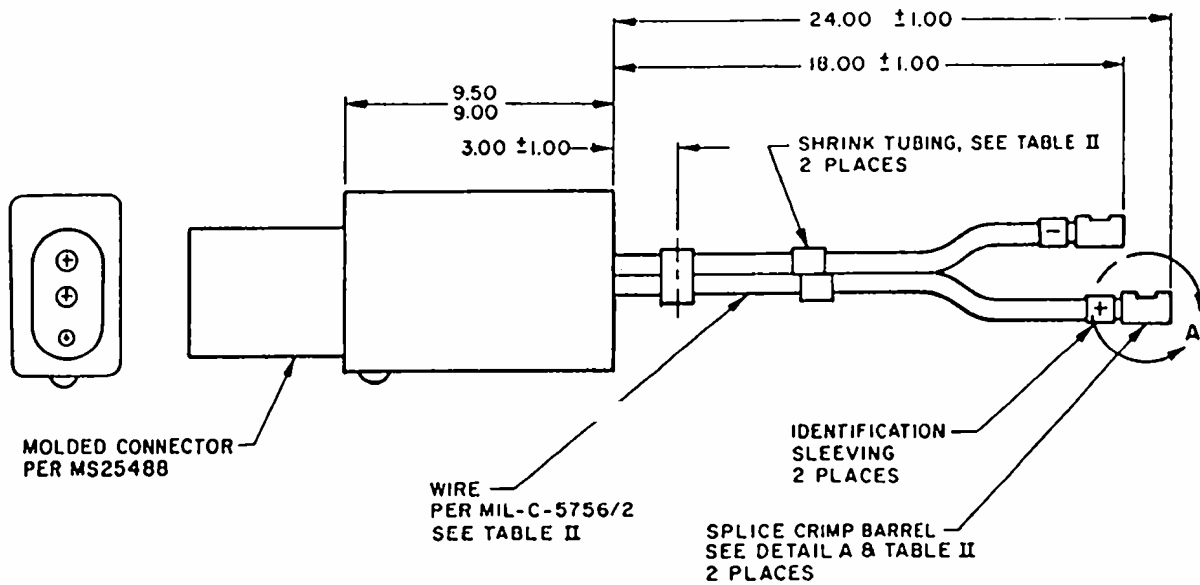


TABLE I. CABLE ASSEMBLY.

PART NO.	WIRE SIZE	TERMINALS		L FEET $\pm .5$	L METERS $\pm .15$	SUPERSEDES
		POSITIVE	NEGATIVE			
MS90347-7	0	MS20659-118	MS20659-135	20	6.10	AN2551C20 & MS25488-6 & MS90347-1
MS90347-8				30	9.14	AN2551C30 & MS25488-7 & MS90347-2
MS90347-9				40	12.19	MS25488-8
MS90347-10				60	18.29	MS25488-9
MS90347-11				80	24.38	MS25488-10
MS90347-12				100	30.48	MS25488-11
MS90347-13	00	MS20659-120	MS20659-136	20	6.10	AN2551D20 & MS25488-12 & MS90347-3
MS90347-14				30	9.14	AN2551D30 & MS25488-13 & MS90347-4
MS90347-15				40	12.19	MS25488-14
MS90347-16				60	18.29	MS25488-15
MS90347-17				80	24.38	MS25488-16
MS90347-18				100	30.48	MS25488-17
MS90347-19	0000	MS20659-123	MS20659-124	20	6.10	AN2551E20 & MS25488-18 & MS90347-5
MS90347-20				30	9.14	AN2551E20 & MS25488-19 & MS90347-6
MS90347-21				40	12.19	MS25488-20
MS90347-22				60	18.29	MS25488-21
MS90347-23				80	24.38	MS25488-22
MS90347-24				100	30.48	MS25488-23

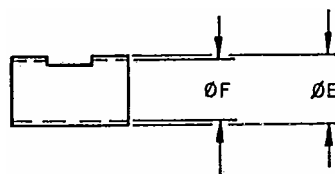
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SPLICE-ON REPLACEMENT PLUG

TABLE II.

PART NO.	WIRE SIZE	SPLICE CRIMP BARRELS (SEE DETAIL A)		SHRINK TUBING Ø X L (NOM)
		ØE	ØF	
MS90347-25	0	.578/.558	.458/.438	1.00 X 5
MS90347-26	00	.640/.620	.520/.500	1.25 X 5
MS90347-27	0000	.784/.760	.645/.622	1.25 X 5



DETAIL A
SEE TABLE II

REQUIREMENTS:

1. MATERIAL: SEE ACQUISITION SPECIFICATION.
2. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± 0.025 ($\pm 0.64\text{MM}$).
3. MOLDED-ON PLUGS, WHEN USED, SHALL MEET ALL THE REQUIREMENTS OF MS25488 EXCEPT THEY SHALL BE MOLDED TO THE CABLES.
4. THE LAST IDENTIFIER OF THE CABLE ASSEMBLY PART NUMBER SHALL BE "A" TO INDICATE AN ATTACHABLE PLUG OR "M" TO INDICATE AN INTEGRALLY MOLDED PLUG.
5. CABLE ASSEMBLIES WHICH ARE ACQUIRED FOR AIR FORCE ORIGINAL APPLICATION, SHALL ONLY BE INTEGRALLY MOLDED CABLE ASSEMBLIES.
6. AIR FORCE USE OF ATTACHABLE PLUGS SHALL BE LIMITED TO REPLACEMENT OF ORIGINAL MOLDED ASSEMBLY PLUGS DAMAGED IN SERVICE.
7. SPLICE CRIMP BARRELS SHALL BE CRIMP TYPE. MOLD OR STAMP WIRE SIZE ON CRIMP BARREL (TABLE II). SPLICE CRIMP BARREL SHALL BE COPPER OR COPPER ALLOY.
8. TERMINAL LUGS CONNECTED TO POSITIVE "+" AND NEGATIVE "-" SHALL BE OF THE SIZE LISTED IN TABLE I.
9. MIL-I-23053 HEAT SHRINK INSULATION TUBING WITH ADHESIVE ON THE I.D. SHALL BE PROVIDED BY SUPPLIER OF SPLICE-ON REPLACEMENT PLUGS. THE TUBING SHALL BE USED TO INSULATE THE CRIMP BARRELS AFTER FIELD INSTALLATION.
10. INSTALLATION INSTRUCTIONS SHALL BE INCLUDED WITH EACH SPLICE-ON REPLACEMENT PLUG.

FOR DESIGN FEATURE PURPOSES, THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER ACQUISITION DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

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